



MIT.10147

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Castano et al. GROUP: 2818  
SERIAL NO: 10/775,600 EXAMINER: Unknown  
FILED: February 10, 2004  
FOR: MAGNETIC MEMORY ELEMENTS USING 360 DEGREE WALLS

Mail Stop DD  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

In compliance with 37 C.F.R. §§1.56, 1.97, and 1.98, Applicant submits copies of the documents listed on the attached Form PTO-1449.

The listed documents were recently cited in a corresponding PCT application, and a copy of the International Search Report is being submitted herewith for purposes of convenience.

The Commissioner is authorized to charge Deposit Order Account No. 19-0079 for any further fee that is required.

Respectfully submitted,

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I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to Mail Stop DD, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

DEC 09 2004

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ATTORNEY DOCKET NO.

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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,541,868	07/30/1996	Prinz			02/21/1995
	AB	6,391,483	05/21/2002	Zhu et al.			03/30/1999
	AC						
	AD						

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AE	WO 02/13208	02/14/2002	PCT			NO
	AF	WO 2004/047113	06/03/2004	PCT			No
	AG						

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL		
	AH	"Metastable States in Magnetic Nanorings," Castano et al. <i>Physical Review</i> . Vol. 67, n. 184425 (May 2003).
	AI	"Magnetization Reversal in Elliptical-ring Nanomagnets," Castano et al., <i>J. of Physics D Applied Physics</i> , vol. 36, pp. 2031-35 (September 30, 2003).
	AJ	"Mesoscopic FCC Co Ring Magnets," Vaz et al., <i>J. of Magnetism and Magnetic Materials</i> , vol. 249, n. 1-2 (August 2002).
	AK	"Switching Properties of Free-Standing Epitaxial Ring Magnets," Klaui et al., <i>J. of Magnetism and Magnetic Materials</i> , vol. 240, n. 1-3 (February 2002).
	AL	"Observation of a Bi-Domain State and Nucleation Free Switching in Mesoscopic Ring Magnets," Rothman et al., <i>Physical Review Letters</i> , vol. 86, n. 6 (February 5, 2001).
	AM	"Fast and Controllable Switching in Narrow Ring Nanomagnets," Lopez-Diaz et al., <i>J. of Magnetism and Magnetic Materials</i> , vol. 242-245, pp. 553-558 (April 2002).
	AN	"Domain Structure of Circular and Ring Magnets," Kazakova et al., <i>J. of Magnetism and Magnetic Materials</i> , vol. 258-59, pp. 348-351 (March 2003).

**EXAMINER**

**DATE CONSIDERED**

**EXAMINER:**

**Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.**